

510(k) Summary

APR - 1 2011

Applicant's Name, Address, Telephone, FAX, Contact Person

Advanced Sterilization Products
33 Technology Drive
Irvine, CA 92618

Contact Person

Nancy Chu
Manager, Regulatory Affairs
Tel: (949) 453-6435
Fax: (949) 789-3900

Date: October 29, 2010

1. CLASSIFICATION, COMMON OR USUAL NAME, DEVICE NAME

Classification Name: Indicator, Physical/Chemical Sterilization Process
Common/Usual Name: Chemical Sterilization Process Indicator
Product Classification: 2
Proprietary Name: STERRAD® Chemical Indicator Strip

2. PREDICATE DEVICE

STERRAD® Chemical Indicator Strip (K921910)

3. INDICATIONS FOR USE

The STERRAD® Chemical Indicator Strip is a Class 1 Process Indicator per ISO 11140-1 (to differentiate processed from unprocessed packages) and is intended for use with medical device packages to be sterilized in STERRAD® Sterilization Systems:

MODEL	CYCLE
STERRAD® 100S	Standard
STERRAD® 50	Standard
STERRAD® 200	Standard
STERRAD® NX™	Standard
	Advanced
STERRAD® 100NX™	Standard
	Flex
	EXPRESS

4. DESCRIPTION OF DEVICE

STERRAD® Chemical Indicator Strip is a through-put process indicator strip to be used with STERRAD® Sterilization Systems. The STERRAD® Sterilization System utilizes hydrogen peroxide gas plasma to achieve rapid, low temperature sterilization of medical devices.

STERRAD® Chemical Indicator Strip functions by means of a chemical reaction. Exposure of the chemical indicator to the STERRAD® Sterilizer cycle results in a recognizable color change from red to yellow. The yellow (or lighter) chemical indicator bar indicates that the load has been exposed to hydrogen peroxide.

5. SUMMARY OF NONCLINICAL TESTS

Performance testing was conducted to demonstrate the functionality of Chemical Indicator Strip in the STERRAD® 100NX™ EXPRESS Cycle and the results show that the Chemical Indicator Strip performs as a through-put process indicator by responding as expected to hydrogen peroxide exposure.

Study	Result
Chemical Indicator Functionality	Passed
End Point / Post Processing Color Stability	Passed
Shelf life	Passed
Biocompatibility	Passed

6. OVERALL PERFORMANCE CONCLUSIONS

The nonclinical studies demonstrate that the STERRAD® Chemical indicator Strip is as safe and as effective as the predicate for differentiating processed from unprocessed packages within the indications for use for the chemical indicator thus establishing that the modified STERRAD® Chemical Indicator Strip is substantially equivalent to the predicate device, the STERRAD® Chemical Indicator Strip (K921910).



DEPARTMENT OF HEALTH & HUMAN SERVICES

Public Health Service

Food and Drug Administration
10903 New Hampshire Avenue
Document Control Room - WO66-G609
Silver Spring, MD 20993-0002

Ms. Nancy Chu
Manager, Regulatory Affairs
Advanced Sterilization Products
33 Technology Drive
Irvine, California 92618

APR - 1 2011

Re: K103218
Trade Name: STERRAD® Chemical Indicator Strip
Regulation Number: 21 CFR §880.2800
Regulation Name: Physical/chemical sterilization process indicator
Regulatory Class: II
Product Code: JOJ
Dated: March 15, 2011
Received: March 16, 2011

Dear Ms. Chu:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration. Please note: CDRH does not evaluate information related to contract liability warranties. We remind you, however, that device labeling must be truthful and not misleading.

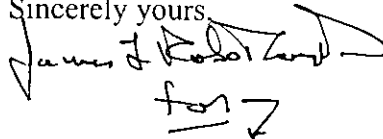
If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the Federal Register.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); medical device reporting (reporting of medical device-related adverse events) (21 CFR 803); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please go to <http://www.fda.gov/AboutFDA/CentersOffices/CDRH/CDRHOffices/ucm115809.htm> for the Center for Devices and Radiological Health's (CDRH's) Office of Compliance. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21CFR Part 807.97). For questions regarding the reporting of adverse events under the MDR regulation (21 CFR Part 803), please go to <http://www.fda.gov/MedicalDevices/Safety/ReportaProblem/default.htm> for the CDRH's Office of Surveillance and Biometrics/Division of Postmarket Surveillance.

You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 796-7100 or at its Internet address <http://www.fda.gov/MedicalDevices/ResourcesforYou/Industry/default.htm>.

Sincerely yours,

A handwritten signature in black ink, appearing to read "James J. Watson" with a stylized flourish at the end.

Anthony D. Watson, B.S., M.S., M.B.A.
Director
Division of Anesthesiology, General Hospital,
Infection Control and Dental Devices
Office of Device Evaluation
Center for Devices and
Radiological Health

Enclosure

Indications for Use

510(k) Number (if known): K103218

Device Name: **STERRAD® Chemical Indicator Strip**

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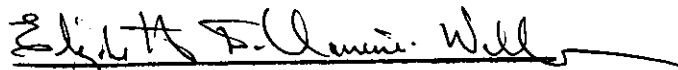
Prescription Use _____
(Part 21 CFR 801 Subpart D)

AND/OR

Over-The-Counter Use √
(21 CFR 801 Subpart C)

(PLEASE DO NOT WRITE BELOW THIS LINE - CONTINUE ON ANOTHER PAGE IF NEEDED)

Concurrence of CDRH, Office of Device Evaluation (ODE)


(Division Sign-Off)

Division of Anesthesiology, General Hospital
Infection Control, Dental Devices

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(Posted November 13, 2003)

510(k) Number: K103218